

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-10 (canceled).

Claim 11 (original): A chemical mechanical polishing monitoring system, comprising:

- a peristaltic pump operable to deliver a slurry to a polishing pad;
- a controller operable to send a drive voltage to the peristaltic pump based on a desired volumetric flow rate for the slurry;
- a rotation sensing device coupled to a rotating shaft of the peristaltic pump and operable to sense a rotation of the peristaltic pump, the rotation sensing device further operable to generate a voltage indicative of the rotation of the peristaltic pump; and
- a computer coupled to the rotation sensing device and the controller, the computer operable to:
 - receive the drive voltage from the controller;
 - receive the voltage from the rotation sensing device; and
 - compare the voltage to a threshold voltage that is based, in part, on the drive voltage in order to monitor the peristaltic pump during use.

Claim 12 (original): The system of Claim 11, wherein the computer is further operable to generate a message based on the comparison.

Claim 13 (original): The system of Claim 11, wherein the rotation sensing device is selected from the group consisting of a tachogenerator, an encoder, a fiber optic detector, and a digital counter.

Claim 14 (original): A chemical mechanical polishing monitoring method, comprising:

- sending a drive voltage to a pump, the drive voltage based on a desired volumetric flow rate for a slurry;
- delivering, via the pump, the slurry to a polishing pad;
- sensing a rotation of the pump;
- generating a signal indicative of the rotation of the pump; and
- comparing the signal to a threshold signal that is based, in part, on the drive voltage in order to monitor the pump during use.

Claim 15 (original): The method of Claim 14, further comprising generating a message based on the comparison.

Claim 16 (original): The method of Claim 14, wherein the pump comprises a peristaltic pump.

Claim 17 (original): The method of Claim 14, wherein sensing a rotation of the pump comprises sensing a rotation of the pump via a tachogenerator.

Claim 18 (original): The method of Claim 14, wherein sensing a rotation of the pump comprises sensing a rotation of the pump via an encoder.

Claim 19 (original): The method of Claim 14, wherein sensing a rotation of the pump comprises sensing a rotation of the pump via a fiber optic detector.

Claim 20 (original): The method of Claim 14, wherein sensing a rotation of the pump comprises sensing a rotation of the pump via a digital counter.